

Claims

1. A closure device to close a convertible top (1) of a convertible vehicle (2) onto a body frame part (4), whereby at least one closure element (6) is assigned to the convertible top (1) and at least one mating closure element (7) is assigned to the body frame part (4), which can be engaged by means of a motor drive unit (8), whereby the convertible top (1) has a gripping element (13), by means of which the convertible top (1) can be moved manually between a pre-closure position at a spacing from the body-frame part (4) and a locked position, in which the convertible top (1) can be closed, and whereby the closure device (3) includes a sensor (12), by means of which assumption of the locked position of the convertible top (1) is detectable and which sends signals to a control unit of the drive unit (8).
2. A closure device according to Claim 1, characterized in that the sensor (12), on reaching of the specified locked position of convertible top (1), generates a signal, and the control unit, based on the recorded signal of sensor (12) operates the drive unit (8) to activate at least one closure element (6) and/or mating closure element (7) to attach the convertible top (1).
3. A closure device according to Claim 1 or 2, characterized in that two closure elements (6) are provided on the convertible top (1) and two mating closure elements (7) on the body-frame part (4).
4. A closure device according to one of Claims 1 through 3, characterized in that it includes an operating element (14), based on whose operation, at least in the attached state of the convertible top, a signal is generated, and the drive unit (8) is operated to release the convertible top (1).
5. A closure device according to one of Claims 1 through 4, characterized in that to release the convertible top (1), operation of at least one closure element (6) occurs, so that the closure element (6) is disengaged from the corresponding closure mating element (7).

6. A closure device according to one of Claims 1 through 5, characterized in that the sensor (12) is designed as a switch, especially as a microswitch.
7. A closure device according to one of Claims 1 through 6, characterized in that the drive unit (8) is designed as an electrically drivable unit, especially with an electric motor (10).
8. A closure device according to one of Claims 1 through 7, characterized in that the drive unit is a hydraulically driven unit.
9. A closure device according to one of Claims 1 through 8, characterized in that the drive unit (8) is integrated into the closure device (3).
10. A closure device according to one of Claims 1 through 9, characterized in that the drive unit is integrated into the body frame part.
11. A convertible top for a convertible vehicle with a closure device (3) for releasable attachment of the convertible top (1) to a body frame part (4) according to one of the preceding claims.